

INSURV Mine Warfare Inspection Guide (MHC)

Updated: 1-Dec-03

AN/SLQ-48 Mine Neutralization System (MNS)

Reference: NAVSEA AN/SLQ-48 Interactive Electronic Technical Manual (IETM)
 NSTM 613, Wire and Fiber Rope and Rigging
 AN/SLQ-48 AEL 0-006950001
 CURRENT PMS: MIP 4672/001, MIP 4762/003, MIP 7321/R10

EQUIPMENT		REMARKS / DISCREPANCIES
VISUAL INSPECTION - VEHICLE		REF: NAVSEA AN/SLQ-48 IETM, MRC 4762/ Q-4R,S-10, S-11,S-12,S-19R,A-4,A-10
(1) Is vehicle skin free of cracks/broken or missing parts?	YES / NO	
(2) Is flasher dome free of damage/missing parts?	YES / NO	
(3) Is sonar dome free of damage/missing parts?	YES / NO	
(4) Are all vehicle skin fasteners installed/ tight?	YES / NO	
(5) Does umbilical drum move freely?	YES / NO	
(6) Is umbilical drum assembly free of damage/corrosion?	YES / NO	
(7) Are all oil filled cables free of cracks/leaks/air bubbles?	YES / NO	
(8) Is the sonar soundhead tilt mechanism free of cracks/loose bolts/missing parts?	YES / NO	
(9) Are all pressure switch mounts free of cracks/ corrosion/missing parts?	YES / NO	
(10) Are all cable connections tight?	YES / NO	
(11) Are all light fixture mounts free of cracks/corrosion/missing parts?	YES / NO	
(12) Are all mounting brackets free of cracks/corrosion/missing parts?	YES / NO	
(13) Are both valve packages free of leaks/corrosion/missing parts?	YES / NO	
(14) Are all components mounted properly?	YES / NO	
(15) Are all hydraulic hoses free of leaks/loose fittings?	YES / NO	

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(16) Is compensator and reservoir dowel pin at 1 ½" from bottom of slot?	YES / NO	
(17) Does vehicle have FC 38 installed?	YES / NO	
(18) Are camera domes free of cracks/ condensation?	YES / NO	
(19) Are all rubberized cables free of cracks/deterioration?	YES / NO	
(20) Is hydraulic fluid clear/no air bubbles?	YES / NO	
(21) Are all propellers free of cracks/corrosion?	YES / NO	
CONSOLES		REF: MRC 4762/ S-10,S-11,S-12
(1) Are all joystick rubber boots free of breaks/tears?	YES / NO	
(2) Do all lights illuminate?	YES / NO	
(3) Do all switches operate freely?	YES / NO	
(4) Are the filters clean?	YES / NO	
(5) Are instrument faces/indicators/knobs free of cracks/looseness/missing parts?	YES / NO	
(6) Are all batteries/ battery holder free of corrosion/broken parts?	YES / NO	
(7) Is the battery voltage above 12 VDC?	YES / NO	
DECK TV		REF: MRC 4762/S-19R
(1) Is camera free of cracks/dirt/damage?	YES / NO	
(2) Is environmental coating present/ deteriorated?	YES / NO	
(3) Is junction box free of cracks/loose connections/missing parts?	YES / NO	
(4) If equipped, is the 3 position video switch free of damage/ loose connections?	YES / NO	

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EQUIPMENT		REMARKS / DISCREPANCIES
VERTICAL REFERENCE UNIT		REF: MRC4762/ A-4.
(1) Is the unit fully accessible/free of corrosion/missing parts?	YES / NO	
(2) Is the unit clean inside and out?	YES / NO	
(3) Are all electrical connections tight?	YES / NO	
TELEMETRY SELECT UNIT		REF: MRC 4762/ A-10.
(1) Is the unit fully accessible/free of corrosion/missing parts?	YES / NO	
(2) Are all electrical connections tight?	YES / NO	
STAND ASSEMBLY UNIT 10		REF: MRC 4762/001 Q-19R
(1) Are all stowage straps free of fraying/cuts/damage/missing parts?	YES / NO	
(2) Are all isolators in good working order?	YES / NO	
(3) Are all rubber bumpers free of tears/deterioration/missing parts?	YES / NO	
(4) Is the unit free of corrosion/missing parts?	YES / NO	
(5) Is bomb loader assembly in good working order/free of missing parts?	YES / NO	
SADDLE ASSEMBLY		REF: MRC 4762/ Q-19R
(1) Are all airlines free of looseness/cuts/abrasions/damage/missing parts?	YES / NO	
(2) Are all air fittings/valves free of cracks/corrosion/looseness/damage/missing parts?	YES / NO	
(3) Is latch assembly free of bends/binding/corrosion/missing parts?	YES / NO	
(4) Is rubber padding free of tears/damage/missing parts?	YES / NO	

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EQUIPMENT		REMARKS / DISCREPANCIES
SUPPORT AND TEST EQUIPMENT (SATE)		REF: MRC 4762/ Q-12,Q-14,S-15,A-3R,24M-2R MRC 7321/ R-1
HYDRAULIC SERVICE UNIT (HSU)		REF: MRC 4762/ A-3R
(1) Are all required gauges calibrated?	YES / NO	
(2) Are all hydraulic lines free of leaks?	YES / NO	
(3) Are all hydraulic hoses free of cracks/bulges/kinks?	YES / NO	
(4) Are all indicators/switches/knobs free of cracks/looseness/missing parts?	YES / NO	
VEHICLE VACUUM SERVICE UNIT (VVSU)		REF: MRC 4762/ 24M-2R
(1) Are all hoses in good condition?	YES / NO	
(2) Is the unit free of corrosion/missing parts?	YES / NO	
(3) Is the unit calibrated/within cycle?	YES / NO	
(4) Is nitrogen gauge calibrated/within cycle?	YES / NO	
(5) Are the nitrogen bottles within their 5 year hydrostatic cycle?	YES / NO	
VEHICLE VOLTAGE TEST SET (VVTs)		REF: MRC4762/ Q-14
(1) Is the unit calibrated/within cycle?	YES / NO	
(2) Is the unit free of damage/missing parts?	YES / NO	
(3) Are indicators/switches/knobs free of cracks/loose connections/missing parts?	YES / NO	
(4) Are the unit's batteries reading above 11.0 VDC/corrosion free?	YES / NO	
SONAR TEST SET (STS)		REF: MRC 4762 Q-12
(1) Are all of the unit's batteries in good condition?	YES / NO	

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EQUIPMENT		REMARKS / DISCREPANCIES
(2) Are all indicators/switches/knobs free of cracks/loose connections/missing parts?	YES / NO	
(3) Are all cables / shock mount cards free of cracks/damage?	YES / NO	
VEHICLE BOTTLE TEST FIXTURE (VBTF)		REF: MRC 4762/ S-15
(1) Are all indicators/switches free of cracks/loose connections/missing parts?	YES / NO	
(2) Is unit free of dents/corrosion/missing parts?	YES / NO	
(3) Is unit clean inside and out?	YES / NO	
OVER-THE-SIDE TRANSDUCER (OTST)		REF: PENDING ISEA DEVELOPMENT
(1) Is the unit free of cracks/corrosion/missing parts/deterioration?	YES / NO	
MK 56 MOD 0 BEAM ASSEMBLY (STRONGBACK)		REF: MRC 7321/ R-1
(1) Is unit weight tested/within 4 yr cycle?	YES / NO	
(2) Is unit free of cracked welds/bent handles/corrosion/damage/missing parts?	YES / NO	
(3) Is unit wire rope free of broken strains/corrosion/damage?	YES / NO	
MK 632 MOD 0 BATTERY TEST SET		REF: NAVSEA AN/SLQ-48 IETM
(1) Is unit calibrated and in cycle?	YES / NO	
(2) Is unit free of corrosion/damage/missing parts?	YES / NO	
(3) Are all indicators/switches/knobs free of cracks/looseness/missing parts?	YES / NO	
REQUIRED EQUIPMENT		REF: AN/SLQ-48 AEL 0-006950001
(1) Is bomb loader tray/bomb loader kit present/in good condition?	YES / NO	
(2) Is emergency recovery kit present/in good condition?	YES / NO	
(3) Is hook extender/retractor present/in good condition?	YES / NO	

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(4) Is video pattern generator present/in good condition?	YES / NO	
(5) Is GO/NO GO indicator present/in good condition?	YES / NO	
(6) Is MP1 assembly stand present/in good condition?	YES / NO	
(7) Is CCU/PDU stands present/in good condition?	YES / NO	
(8) Is electrical shield present/in good condition?	YES / NO	
(9) Are celmark wrenches present/in good condition?	YES / NO	
(10) Are the proper reterm tools present/in good condition?	YES / NO	
(11) Is a 77/BN Fluke mutimeter present/in good condition?	YES / NO	
(12) Is the W57 cable free corrosion/bent or missing pins?	YES / NO	
OPERATIONAL / DIAGNOSTIC		REF: NAVSEA AN/SLQ-48 IETM, MRC 4762/ 2M-1R, Q-21, Q-32R, S-17R, A-7R, A-8R, A-9R
VEHICLE		REF: MRC 4762/ 2M-1R, S-17R
(1) Is ERG battery voltage 24 VDC or above?	YES / NO	
(2) Does MNV power up/ faults clear?	YES / NO	
(3) Does flasher flash?	YES / NO	
(4) Does pinger ping?	YES / NO	
(5) Do both cameras complete full range of motion?	YES / NO	
(6) Does hydraulic pressure reach 2200 PSI?	YES / NO	
(7) Do all propellers rotate when commanded?	YES / NO	
(8) Do elevators move up and down when commanded?	YES / NO	
(9) Does sonar show grass on selected CRT when commanded?	YES / NO	
(10) After powering hydraulics any leaks ?	YES / NO	

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EQUIPMENT		REMARKS / DISCREPANCIES
(11) Do all light illuminate when commanded?	YES / NO	
(12) Does thruster hold switch operate properly?	YES / NO	
(13) Does depth sensor show proper depth when calibrated?	YES / NO	
(14) Does altimeter show proper altitude when in water?	YES / NO	
(15) Does heading hold operate properly?	YES / NO	
(16) Does MNV's pitch and roll match ship's pitch and roll?	YES / NO	
CONSOLES		REF: MRC 4762/ 2M-1R
(1) Does consoles power up when commanded?	YES / NO	
(2) Do all lights illuminate bright when commanded?	YES / NO	
(3) Does pitch indicator go to + 45 when lamp test is pressed?	YES / NO	
(4) Does heading indicator go to 180 when lamp test is pressed?	YES / NO	
(5) Do all switches change when commanded?	YES / NO	
(6) Does event timer operate properly?	YES / NO	
(7) Do all CRTs show selected pictures?	YES / NO	
(8) Does sonar ranges change to selected ranges?	YES / NO	
(9) Does range gate cursor move when commanded?	YES / NO	
(10) Does the sonar tilt operate in MNL and AUTO mode?	YES / NO	
(11) Does sonar power level increase and decrease?	YES / NO	
(12) Does navplot display proper grid?	YES / NO	
(13) Does monitor console key pad operate properly?	YES / NO	

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(14) Does VTR switch and recorder operate properly?	YES / NO	
(15) Does JTSN CHG, JTSN BLST, EMER RCVY, CUT UMB operate properly?	YES / NO	
(16) Does mission package control sequence operate properly?	YES / NO	
(17) Do all diagnostic tests pass?	YES / NO	
(18) Do all data buffers change to correct values?	YES / NO	
(19) Does HD Hold, Depth Hold, ALT Hold operate properly?	YES / NO	
CCU / PDU		REF: MRC 4762/ Q-21
(1) Does primary PDU pass operational test?	YES / NO	
(2) Does primary CCU pass input, output, erg CCA tests?	YES / NO	
(3) Does primary CCU pass the ALT Hold test?	YES / NO	
(4) Does secondary PDU pass operational test?	YES / NO	
(5) Does secondary CCU pass input, output, erg CCA tests?	YES / NO	
(6) Does secondary CCU pass ALT Hold test?	YES / NO	
(7) Does MAM PDU pass operational test?	YES / NO	
(8) Does MAM CCU pass input, output, erg CCA tests?	YES / NO	
(9) Does MAM CCU pass the ALT Hold test?	YES / NO	
ACOUSTIC TRANSMIT PANEL (ATP)		REF: MRC 4762/ A-7R, A-8R, A-9R
(1) Does ATP power up when commanded?	YES / NO	
(2) Are all voltages within parameters?	YES / NO	

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(3) Does ATP emit a two tone audible signal when in test mode?	YES / NO	
(4) Does meter on AN/WQC-2 deflect when ATP transmits?	YES / NO	
SUPPORT AND TEST EQUIPMENT (SATE)		REF: NAVSEA AN/SLQ-48 IETM
VEHICLE VACUUM SERVICE UNIT (VVSU)		REF: NAVSEA AN/SLQ-48 IETM
(1) Does VVSU vacuum pump start on command?	YES / NO	
(2) Does VVSU pull a vacuum to 23 +/- 3 HG?	YES / NO	
HYDRAULIC SERVICE UNIT (HSU)		REF: NAVSEA AN/SLQ-48 IETM
(1) Does HSU pump start on command?	YES / NO	
(2) Is the HSU pressure operating around 2500 PSI?	YES / NO	
(3) Does the HSU shift from high to low and low to high pressure?	YES / NO	
OVER-THE -SIDE TRANSDUCER (OTST)		REF: PENDING ISEA DEVELOPMENT
(1) Does OTST transmit a two tone audible signal three times?	YES / NO	
W57 CABLE		REF: MRC 4762/ S-17R
(1) Does W57 cable have 28 VDC at pins 11 and 18?	YES / NO	
LUBRICATION		REF: MRC 4762/ M-3, M-14R
VEHICLE		REF: MRC 4762/ M-14R
(1) Are the retractor arm assemblies lubricated?	YES / NO	
(2) Do the retractor assemblies move freely?	YES / NO	
(3) Is the retractor assemblies free for rotating?	YES / NO	

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MK 56 MOD 0 BEAM ASSEMBLY		REF: MRC 7321/ S-1R
(1) Is there a light coat of oil on the safety hook latch assembly?	YES / NO	
(2) Is there a light coat of grease on the wire rope?	YES / NO	
(3) Is beam assembly clean, free of corrosion, and properly preserved?	YES / NO	